MODIS sensor Working Group (MsWG) Meeting Summary Apr 18, 2007

Attendance: Jack Xiong, Gerhard Meister, Gene Eplee, Chris Moeller, Bryan Breen, Scott Blanchard, Eric Vermote, Zhengming Wan, Aisheng Wu, Vincent Chiang, Elena Novakovskaia, Brian Wenny

---

Scheduled Agenda

Item 1: Recent L1B LUT delivery

- Terra update – Special Collection 4 update for FEWSN (4/6/07)

Item 2: Instrument status

- Terra and Aqua MODIS are in nominal operations.
- The Aqua Inclination Adjustment Maneuver are continuing as planned. There are two maneuvers remaining, scheduled for approx. 1600 GMT on:
  - 2007/114 – Wed. 4/24
  - 2007/128 – Wed. 5/08
  - 2007/135 – Wed. 5/15 (backup)

Item 3: MCST recent activities

- Terra/Aqua data blocking: Approval for Terra time periods has been granted from the science groups. MOPADS is preparing to implement the data hiding. **CM** and **EV** requested doing a quick check on the first 'unblocked' L1B granule just to reassure ourselves that there is no anomalous behavior in the granule. **BW** will provide these test granules. 3 blocking times were proposed for Aqua using a similar approach as that used for Terra. These time periods are:
  1. 2002178.1545 - 2002184.2355 (6/27/02 15:40 – 7/3/02 23:55)
  2. 2002210.2025 - 2002220.0025 (7/29/02 20:25 – 8/8/02 00:25)
  3. 2002255.1335 - 2002257.1320 (9/12/02 13:35 – 9/14/02 13:20)

  The info has been sent to MODAPS.
- Fill Value vs Interpolated L1B: Code is ready. MCST will coordinate with L1B group to have a one-day test data set produced for the science teams to check.
- Space View DN analysis – MCST has begun analysis on the Terra SV DN and DCR trend. A presentation package will be sent to SBRS for consultation. A drop in SV DN is apparent for the warm focal plane bands. The issue is not of immediate concern but may become increasingly of interest in the future (6-12 months).
- An issue of negative radiance values for TEB bands 22-25 was noticed for recent granules and MCST is investigating the frequency and legitimacy of these values. **CM** suggested that for very cold scenes, these bands can go negative as the signal is very low and within the noise level of the TEB bands.

Item 4: Around the Table

- MCST is investigating an AOI dependence in EV trending, primary cause unknown – possibly polarization or RVS. Largest effects seen for Bands 8 & 9. Coordinating work with the Ocean group. **GM**: Ocean Color group has analyzed one day (end 2005 - Terra) and determined B8 corrections on order of 4%. Mirror Side 2 had the larger corrections – with increased polarization. Applying this correction to other days of 2005 worked well, but not when applied to 2006 data, indicating a need for a time dependent polarization correction. Future plan is to analyze a day from early in the mission – expecting to see a small correction.

Next Meeting: ~May 2, 2007

Compiled by B. Wenny